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**SUBJECT CODE NO:- B-2177**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. F.Y (Sem.-II) Examination OCT/NOV 2019**  
**Computer Science Paper-IV CS04**  
**Operating System-I**

[Time: 1:30 Hours]

[Max. Marks:50]

Please check whether you have got the right question paper.

- N.B
- i) Attempt all Question
  - ii) Illustrate your answers with suitable labeled diagram.

## Section A

- Q.1
- a) What is operating system? Explain function of operating system 10
  - b) Explain the concept of process with suitable example. 10
- (OR)**
- a) What is software? Explain classification of software. 10
  - b) Explain characteristics of modern operating system. 10
- Q.2
- a) Explain any four types of operating system. 10
  - b) What is deadlock? Explain concept of deadlock. 10
- (OR)**
- Write short notes on any four of the following. 20
- a) Semaphores
  - b) First-come-first-served scheduling
  - c) Round robin scheduling
  - d) Segmentation
  - e) Paging
  - f) Logical VS Physical address space
- Q.3 Multiple Choice Question 10
- 1) PCB means \_\_\_\_\_
    - a) Program control block
    - b) Process control block
    - c) Process communication block
    - d) Print cancel box
  - 2) Super computer typically employ \_\_\_\_\_
    - a) Real time operating system
    - b) Multiprocessor operating system
    - c) Personal computer operating system
    - d) None of the above
  - 3) FIFO scheduling is \_\_\_\_\_
    - a) Preemptive
    - b) Non preemptive
    - c) Deadline
    - d) None of above

- 4) The primary job of the operating system of a computer is to \_\_\_\_\_
  - a) Command resources
  - b) Manage resources
  - c) Provide utilities
  - d) Be user friendly
- 5) \_\_\_\_\_ helps to analyze ,configure ,optimize and maintain the computer
  - a) Utility software
  - b) Program
  - c) Hardware
  - d) Application software
- 6) The address generated by the CPU is called \_\_\_\_\_
  - a) Logical address
  - b) Physical address
  - c) Login address
  - d) Loss address
- 7) \_\_\_\_\_ is a technique that allows the execution of processes that may not be completely in the memory.
  - a) CPU
  - b) Main memory
  - c) Virtual memory
  - d) None of above
- 8) Mouse, keyboard, screen are \_\_\_\_\_ devices.
  - a) Human interface devices
  - b) Storage devices
  - c) Transmission devices
  - d) None of the above
- 9) \_\_\_\_\_ Of an operating system provides many service related to I/O
  - a) The Kernel
  - b) Control
  - c) Memory
  - d) None of the above
- 10) \_\_\_\_\_ a set of I/O request is a function of the I/O subsystem.
  - a) Polling
  - b) Timer
  - c) Scheduling
  - d) None Of the above